

Title (en)  
VEHICLE POWER SUPPLY SYSTEM, AND VEHICLE

Title (de)  
VORRICHTUNG ZUR FAHRZEUGSTROMVERSORGUNG UND FAHRZEUG

Title (fr)  
SYSTÈME D'ALIMENTATION ÉLECTRIQUE DE VÉHICULE ET VÉHICULE

Publication  
**EP 3696008 A1 20200819 (EN)**

Application  
**EP 20153815 A 20200127**

Priority  
JP 2019018626 A 20190205

Abstract (en)  
A vehicle power supply system (10) to be installed in a vehicle (1) includes a battery (18) having a rated voltage lower than a predetermined voltage, a capacitor (22) having a rated voltage higher than the predetermined voltage, a capacitor discharging device (19) that discharges the electric charge stored in the capacitor (22), and a control device (19a) that controls the capacitor discharging device (19), in which the control device (19a) controls the capacitor discharging device (19) so that the electric charge stored in the capacitor (22) is discharged and the battery (18) is charged with the discharged electric charge when the vehicle (1) collides or when the capacitor (22) is to be replaced.

IPC 8 full level  
**B60L 3/00** (2019.01); **B60K 6/28** (2007.10); **B60L 3/04** (2006.01); **B60L 15/00** (2006.01); **B60L 15/20** (2006.01); **B60L 58/10** (2019.01); **H02J 7/00** (2006.01); **H02J 7/34** (2006.01); **H02M 1/32** (2007.01); **H02M 3/07** (2006.01); **H02M 3/18** (2006.01)

CPC (source: CN EP US)  
**B60K 6/28** (2013.01 - EP); **B60K 6/48** (2013.01 - EP); **B60K 6/52** (2013.01 - EP); **B60L 3/0007** (2013.01 - CN EP); **B60L 3/0046** (2013.01 - EP); **B60L 3/04** (2013.01 - CN EP); **B60L 15/007** (2013.01 - EP); **B60L 15/2045** (2013.01 - EP); **B60L 50/40** (2019.01 - CN); **B60L 50/60** (2019.01 - CN); **B60L 50/66** (2019.01 - US); **B60L 53/22** (2019.01 - US); **B60L 58/10** (2019.01 - EP); **B60R 16/03** (2013.01 - CN); **B60R 21/013** (2013.01 - US); **B60R 21/0132** (2013.01 - US); **H02J 7/007188** (2020.01 - US); **H02J 7/34** (2013.01 - CN); **H02J 7/345** (2013.01 - CN EP); **H02M 3/07** (2013.01 - EP); **B60K 2006/4825** (2013.01 - EP); **B60L 2210/10** (2013.01 - US); **B60W 2030/082** (2013.01 - EP); **B60W 2520/105** (2013.01 - EP); **B60W 2556/50** (2020.02 - EP); **H02J 1/082** (2020.01 - EP); **H02J 7/345** (2013.01 - US); **H02J 2207/20** (2020.01 - US); **H02J 2310/48** (2020.01 - EP); **H02M 1/322** (2021.05 - EP); **Y02T 10/62** (2013.01 - EP); **Y02T 10/64** (2013.01 - EP); **Y02T 10/70** (2013.01 - EP); **Y02T 10/7072** (2013.01 - EP); **Y02T 10/72** (2013.01 - EP); **Y02T 10/92** (2013.01 - EP); **Y02T 90/14** (2013.01 - EP)

Citation (applicant)  
JP 2016111754 A 20160620 - TOYOTA MOTOR CORP

Citation (search report)  
• [I] US 2010213904 A1 20100826 - YAMADA KENJI [JP]  
• [A] US 2014078801 A1 20140320 - TIMMONS ADAM [US]  
• [A] EP 0828304 A2 19980311 - HONDA MOTOR CO LTD [JP]  
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• [A] US 2014265559 A1 20140918 - LEEHEY JONATHAN R [US], et al

Designated contracting state (EPC)  
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Designated extension state (EPC)  
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DOCDB simple family (publication)  
**EP 3696008 A1 20200819**; **EP 3696008 B1 20211013**; CN 111645524 A 20200911; CN 111645524 B 20230602; JP 2020127300 A 20200820; JP 7177985 B2 20221125; US 11173858 B2 20211116; US 2020247340 A1 20200806

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**EP 20153815 A 20200127**; CN 202010076696 A 20200123; JP 2019018626 A 20190205; US 202016775285 A 20200129